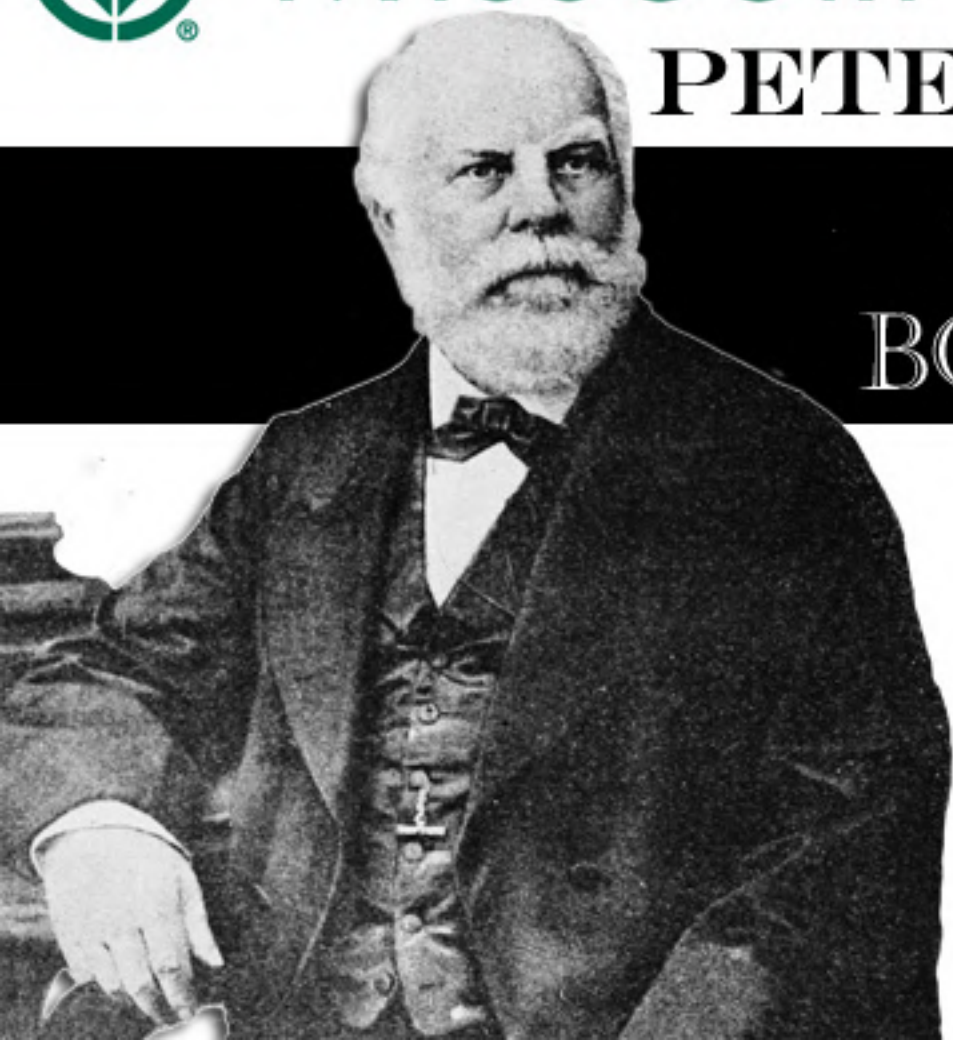


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35

Cusd. p. 487

C. umbellata H.B.K.

oo. C. umbellata Torrey ! Rocky Mts. & James  
Hb. Torrey

p.p. C. umbellata HBK ! Mexico Humboldt  
Hb. Kunth.

nn. Cult St Louis from New Mexican Seed

x 39 Pianty, Borrit, Gardner 2425 Hb. Hb. Kunth.

60 Camargo, Gregg 880

Saltilla, Gregg. 490

60.6. C. umbellata HBK = Hb. Berl.

81. Ne 371 & 695 Wright.

82 Wright 510, Limpia

207. Broomfield, Jamaica Hb. Hb. Hb. Kunth  
Purdie

26 27 25

(Enclosed 308-317)



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*C. umbellata* HBK. ! Queretaro Mexico. HBK.  
*C. parviflora* Willd. HB. N 3163 ?  
*C. umbellata* W. Torr., James Eyre, Rocky Mts.

Gregg. 490. Ayupon near Saltillo  
 " 880 Camargo

Wright 1627.

1636

1639

695 San Bernardino, Buena

371. N Mexico

510 Limpia

Fendler, 659. Santa Fe in neglect  
 kitchen gardens & waste fields on  
 American etc.

Ind. Occid: Broomfield, I amara, in Hb. Benth.

~~252 Willschlegel, Antigua in Hb. Mart.~~

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*exserta*  
 var. *Brasilianensis* Antigua Willschlegel  
 N 352 in Hb. Mart.  
*C. desertorum* Mart. Mus! Piahy, Brasil  
 Mart.  
 Piahy, Brasil, Gardner 2425  
 in Hb. Hook  
 & Benth



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*C. umbellata* H. B. K. ! Queretaro, Mexico Aug. 18 - H. B. K.

(*C. parviflora* Willd herb N. 3163. " " "

James Exped. Rocky Mts. Herb Torrey

*Azufra* near Saltillo Gregg N 490

Camargo 4 N. 880

New Mexico & Sonora, Wright 371.510

695. 1627. 1636. 1639. Schöff. Thyl

Santa Fe Tender N 659. in waste  
field

London - Abbott, Geo. Hays & Co.

Ind. occid. Jamaica Broomfield - H. B. Purkin

Samuel Parkie 4 4 4

var. exserta

~~Antigua Wollschlaegel N 352 H. Mart.~~

Piahy, Brazil, Martins H. C. Mart

(C. desertorum Mt. Mass!)

Pianky. Bras & Jandras 2425  
= 166 Hook & Smith



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over

*C. umbellata*

2/8/59

Looks very much like *C. salina* on Sueda  
from same region see other side

San Pedro River (Sonora) Arizona

Southern Pacif. Wagon road. E. side

Dr. S. Hays

on Sueda

1858



calyx with 5 sepiments



4 seeds developed



0.5

seeds 1/2 lin long, about  
oblong. vix rostrat.  
lin. linear breviss.  
obig.

fl. umbellat. lob. cal. non imbricat. tripart. tub. fore septatis  
lacini reflexis limbo lanceolatis. tubo longioribus, anther. linearibus oblong  
filamentis, subulatis appendicibus, ~~stigma~~ squam. fructu ovali, styli ovario  
longioribus, antheris atropurpureis, caps. imbricatis, ciliis serratis, & angulatis



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Sept 1875

4668

similar to *C. salina*  
but flowers longer pedicelled,  
lobes of corolla much more slender, longer than tube,  
filaments almost as long as stamens,  
anthers broadly oval, strongly fringed.  
Ovary depressed  
capsule depressed, circumscissile

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49 *C. leptantha* n. sp. Donner, Wright 1839 pro parte



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nn

*Cuscuta umbellata* HBK from New Mexican seed  
cult. St Louis Sept 1852



fl. 2 lines diam.  
corolla lobes  $\frac{3}{4}$  l. long.



fruit



ripe seed



upper part of capsule circumscissile



ovary



cal. fructif.  
c. baccate  
& dissect

raised from seeds coll by Dr Bigelow Nov 3<sup>d</sup> 1851 at  
Mule Springs N. Mex.  
cultivated on portulaca Gilliesii & Clavaria



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60.6

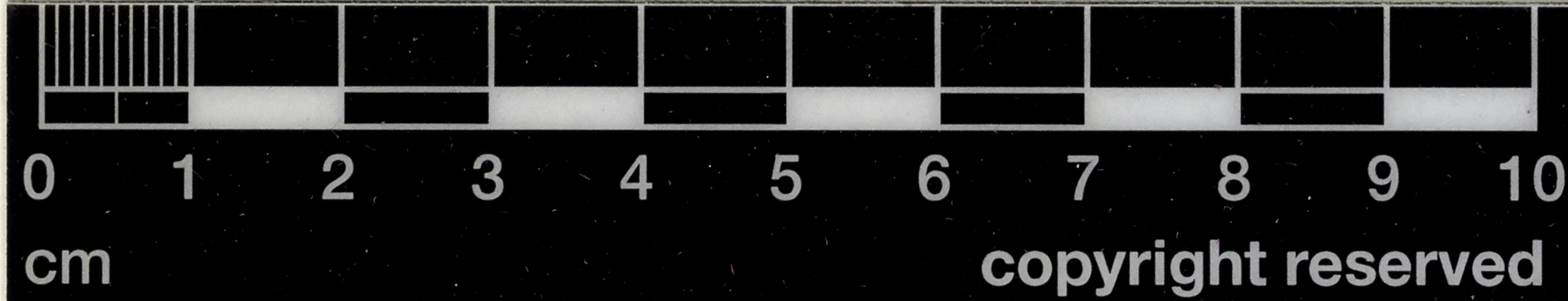
*Cuscuta umbellata* Kunth. Hb. Berlin, Humboldt leg.

is a very low plant, capsule ~~one-seeded~~, entirely  
identical with the new Mexican plant; seed in the  
dry capsule exanate single, subglobose rounded,  
0.6 mm verruculose

pp.

*Cuscuta umbellata*  
Humb.  
Herb. Kunth.  
Mexico Humboldt

St. Louis Dec 1846



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*Chamaecyparis*



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O.O.

*Cuscuta umbellata* HBK  
on *Portulaca oleracea*

Eastern base of  
Rocky Mtns. St James

gr. prof. - Hilch

St Louis 1844



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Hew Aug 1857  
*C. umbellata* var  
 Dr Coulter No 1010  
 Sonora alt., Mexico  
 Herb Hook.

This is a singular small  
 form of *Cuscuta umbellata*, or  
 perhaps of *C. gracillima*. corolla  
 papillose - recurved - styles very  
 unequal —

*C. Umbellata* *C. Californica*, *C. leptantha*, and *C. gracillima*  
 are very nearly allied. *C. Californica* however is  
 distinguished by the want of scales.  
*Gracillima* and *umbellata* stand too  
 near! The densely fasciculated pedicels



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and small flowers seen to be the principal  
difference

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*Cuscuta umbellata* Kunth

Camargo on Achyroth, Kallstrom  
etc - June 1<sup>st</sup> 1847  
Dr Gregg 880

calyx deeply divided lobes  
longer than tube of corolla;  
filaments longer than oblong  
linear anthers. stamens  
shorter than lobes of corolla;  
styles longer than ovary, filiform  
lobes of corolla patulous  
at last reflexed; corolla  
covering the capsule! which  
remains persistent and is rarely  
irregularly overgrown (torn off  
by force)

Gregg's No 490. Near Saltillo  
also on Kallstrom and some  
*Amaranthacea* is the same thing  
but apparently not common



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o. 5-0.6

N. Wrightiana

Cucurbit. umbellata

N. 371.

filamentis longe pedunculatis longe ~~campanulatis~~ <sup>umbellatis</sup>,  
 calycis lobis acutiusculis tubo corollae campanulato  
 paullo superantibus; laciniis lanceolatis patulis  
 reflexis ve tubo aequantibus; squamis magnis;  
 stylis filiformibus exsertis, caps. ovata verrucosa,  
 sem. verrucosis 0.5-2.6 lin longis

N. 695

is entirely identical

No number

is a form with shorter pedicels, scarcely as long as the flowers,

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4

Cusc p. 487

C. partita Chois

18. C. partita Chois! Blanchet 3047 Brasil.  
Hb. Shuttle.

38 Pirahy, Brasil, Gardner Hb. H.

50. Pirahi, Brasil Gardner 2684 bi H. W. Dob.  
H. delectat, Gardner 2684.

Curacao Friedrichsthal 375. b. H. W. Dob.

195. maraibo Karsten

231 Weddell 3483 Bolivia

" " 3611 Gutierrez, Bolivia

(Enclosed 299-303)



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*Cuscuta partita* Choisy

*Rexia* near *Marraibo*  
on some annual *Croton* L. Karsten

Minutissima, filiginea, vix capillares  
humili; flentes in squamis parvis-  
culatis, laxis, congestis pedicellatis,  
calycis lobis lanceolatis, acutis ad  
basin fere divisis, tubo cor. breviter  
cavatis, tubo <sup>ventricosus</sup> max. uniloculari subaequali  
reflexis, apice inflexis; staminibus  
filamentis longis; squamis magnis  
paucis aequalibus; stylis capillaribus  
crum paucis globosis multo longioribus



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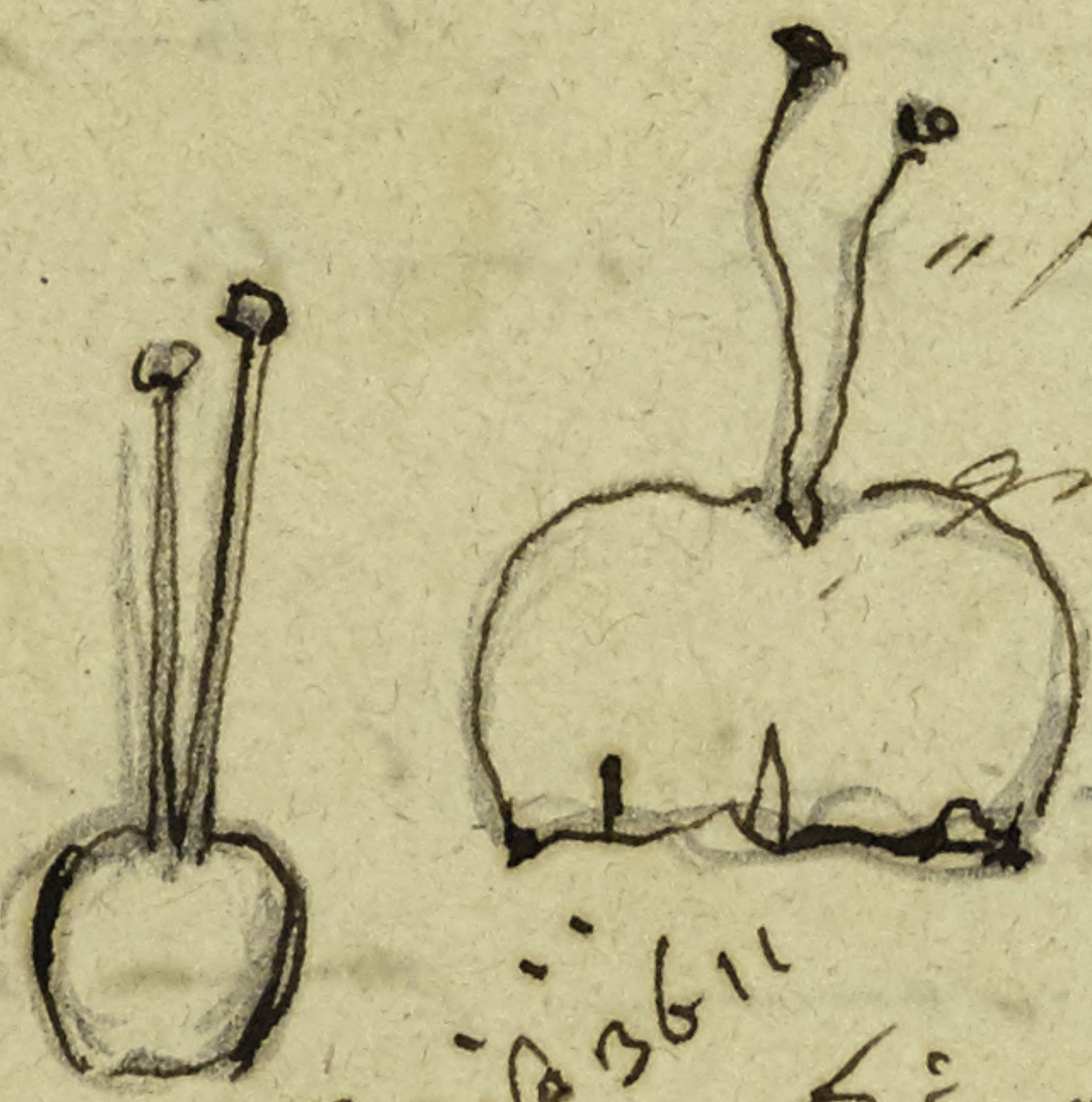
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Paris June 1857

*Grammiera patita*  
*p. major*

3483. Coll H. A. Widdell

Campos humidos, Prov. Chiquitos  
Bolivia Sept & Octob 1845."flowers yellowish or reddish white  
growing on some low species of *Cassia*This seems to be the plant of Gardner  
fig. 50 - flowers only more compact and  
a little larger

corolla in all these (as in a few others)

plants soon after flowering ventricose; the line below the flaments (the flaments  
itself!) is thickened and remains tighter, while the paracymbium  
of the corolla tube becomes larger, wider, and thereby the whole  
ventricose, but somewhat divided in 5 compartments, which correspond  
with the petals, externally it then looks obtusely 5-angled, and 5-grooved0  
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calycis profunde fere ad basin fissi lobis lanceolatis, laxis,  
 apice saepe recurvis. tubo corollae cylindrico brevioribus;  
 laciniis corollae <sup>laciniis</sup> lobis brevioribus recurvis apice inflexis;  
 staminibus laciniis vix brevioribus, antheris magnis oblongis  
 filamentis subulatis longioribus; squamis medio ~~tubo~~ corollae  
 filamentosae - filamentis crispis incurvis, tubum subaequantibus  
 stylis filiformibus, ovario parvo globoso - longe superantibus  
 demum longe exsertis; capsula baccata corolla marcescente  
 fere indurata.

This is the same as partita, all essential parts, only  
 much larger and not red; same form of calyx & corolla,  
 same large anthers, long styles etc.

3611 Gutierrez, Bolivia, Weddell is the same plant, scales more  
 deeply divided and stamens shorter; in the Province of  
 Cordillera in Bolivia - fl. rose or whitish - Nov & Dec 1845

<sup>22</sup>/<sub>9</sub> caps. ovoid ! tenuis - sem. obliq. o. rostro 2-4 nervis  
 hil brev. obliq. oblongo - perisperm. fusco (= rostro)



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= 50

*Cuscuta partita* Choisy!

Brazilia, Blanchet 3047

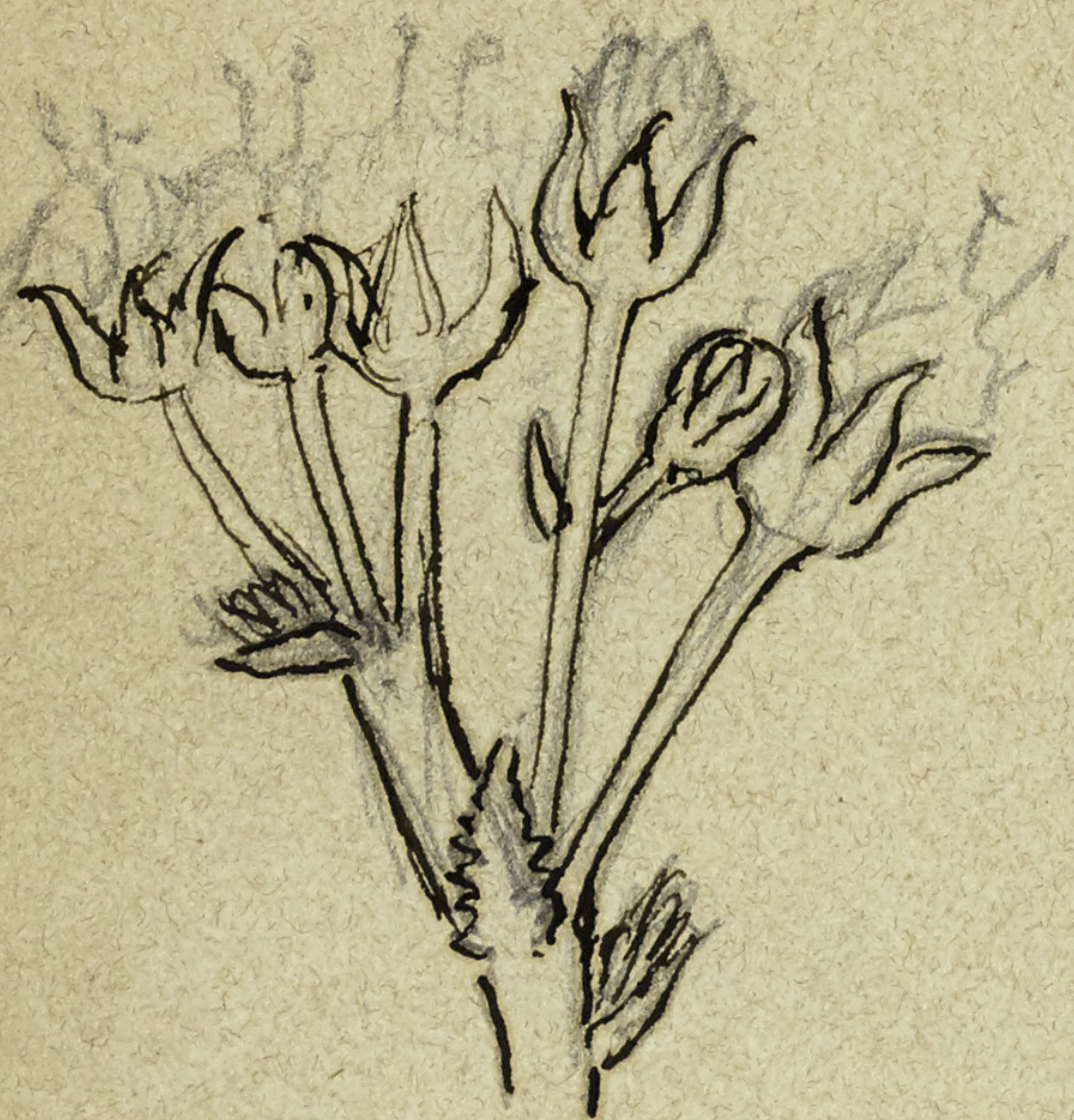
ex herb. Shuttleworth

tota subcylindrica

gynis laxis fl. longe pedicellatis  
minutis ( $\frac{3}{4}$  lin) calyce profundi

— 5 partitis lobis laciniatis acutis;  
corollae tubo campanulato inclusis  
0.8" laciniis tubo brevioribus laciniatis  
erectis, demum reflexis, apice  
inflexis; staminibus brevioribus  
antheris ovatis filamento (aequaliter  
fere insertis)

ovariis magis  
fere abscissis  
ovario depresso  
pauco, stylis  
nullis longioribus  
exsertis.



young flower



a complete flower  
and a small open  
incomplete one on  
the same <sup>region</sup> calyx!

12. 18. 22. 26 36. 38. 39. 45. 50

belong near together



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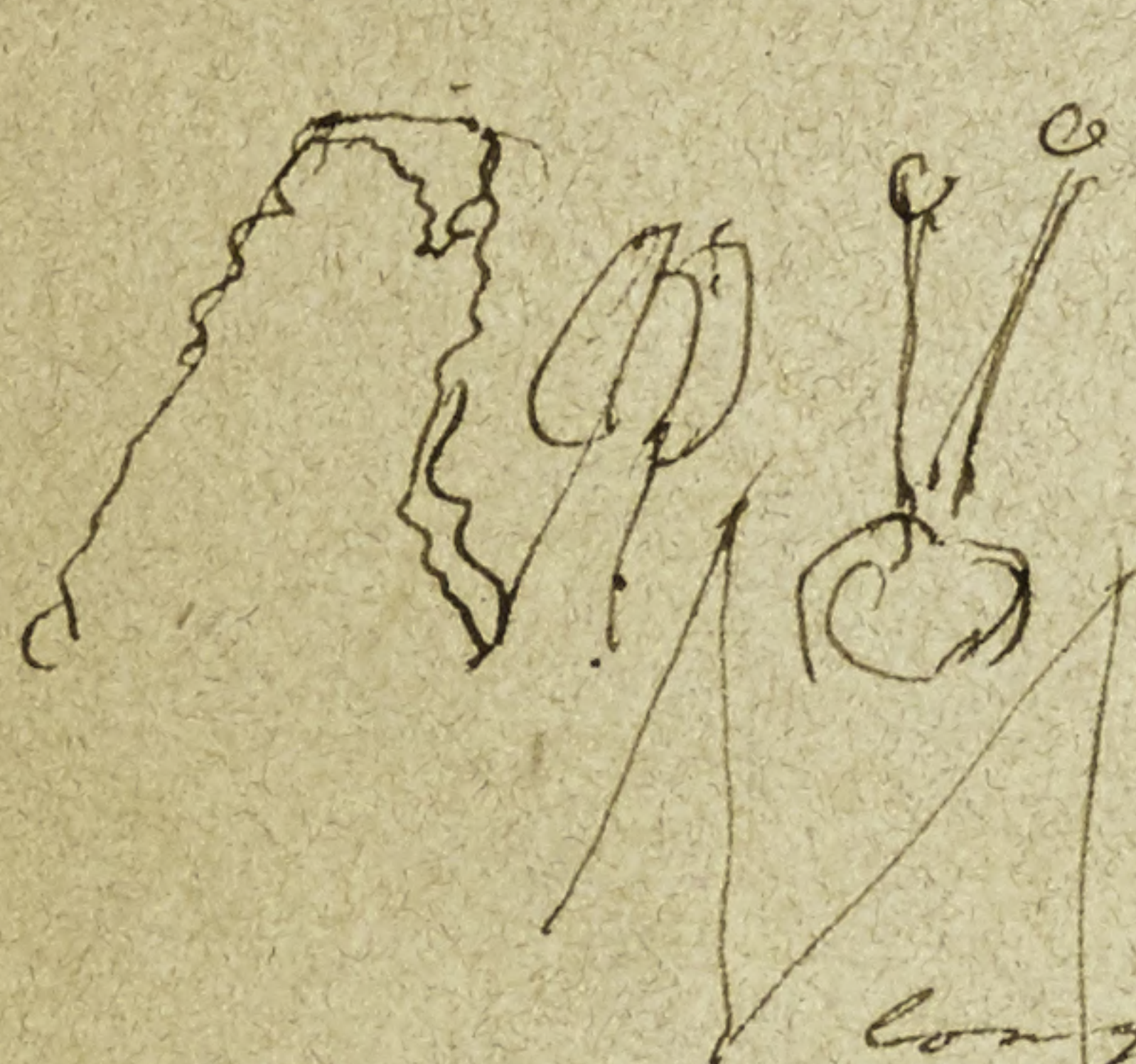
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*Passiflora partita* Choisy

Brazil

~~Pohl 1700~~

Herb. Vindob. N 70

Pianhy, Gardner 2684. bis.

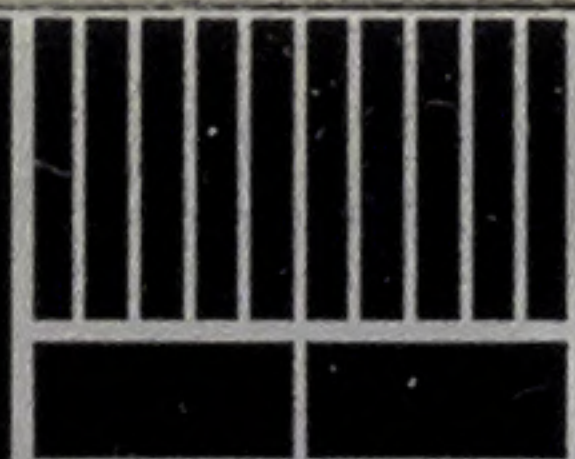
& Herb. Berlin

flowers <sup>longer</sup> pedicelled; bracts integris; flowers free limb long  
 subis, s. unguis, surco subro repletis;  
 calyx is flabris lumbellis acuminatis, volla tuba campanulata  
 (prope partita) superantibus; laciniis volla tuba subrotundis, acuminatis,  
 apice recurvis, erectis s. deum reflexis; granulato verrucosis  
 stylis capillaribus filiformibus ovario longioribus, subexsertis

I can see no difference of this plant, & Choisy's

*C. partita*, - Herb. Berlin, Gardner 2684 is the same thing, but flowers larger  
 1.2 - 1.4 line long

Herb. Vindob. 59: Curacao, Friedrichsthal 375.6. is the same plant  
 flowers a little smaller, styles slightly shorter



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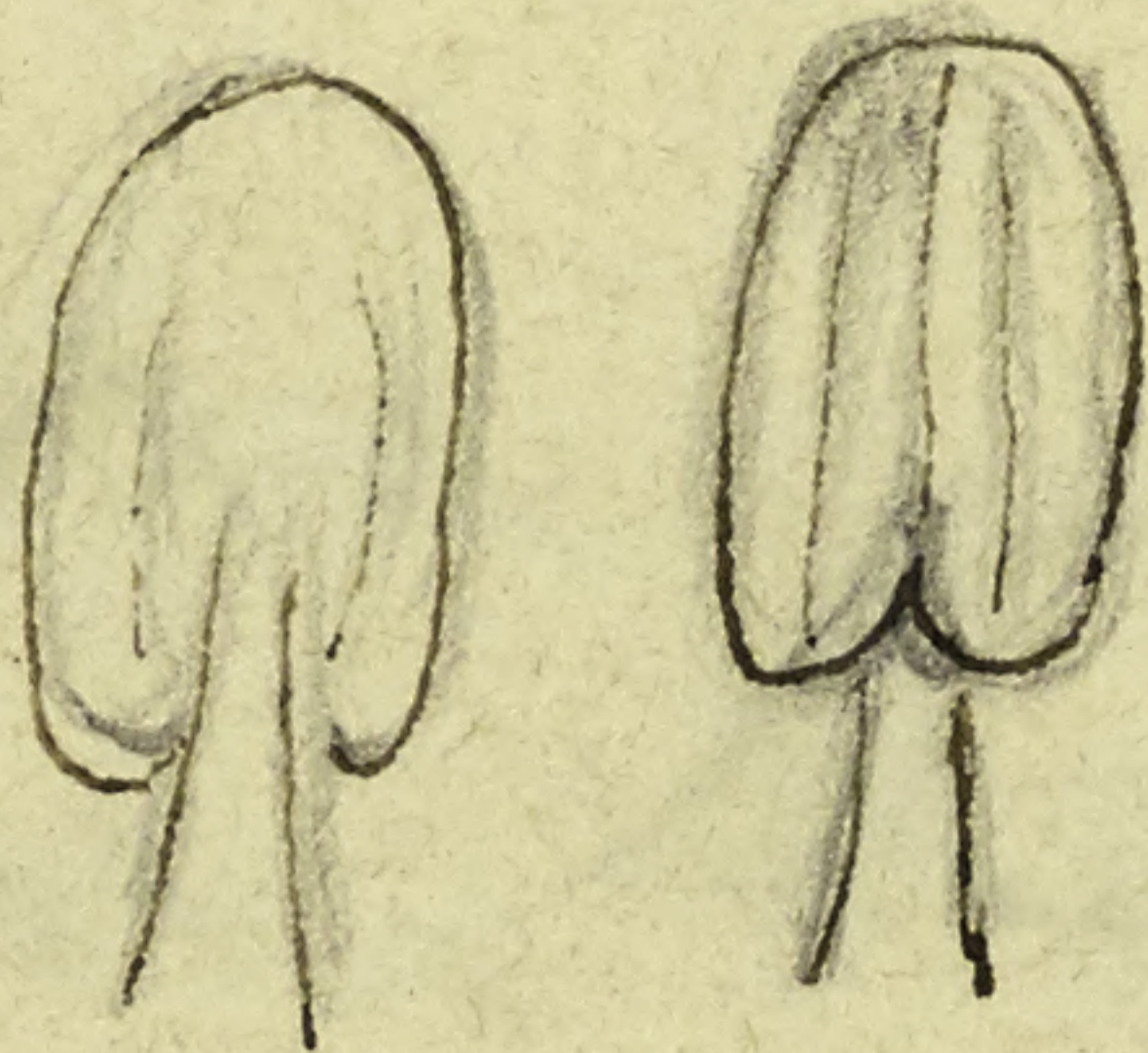


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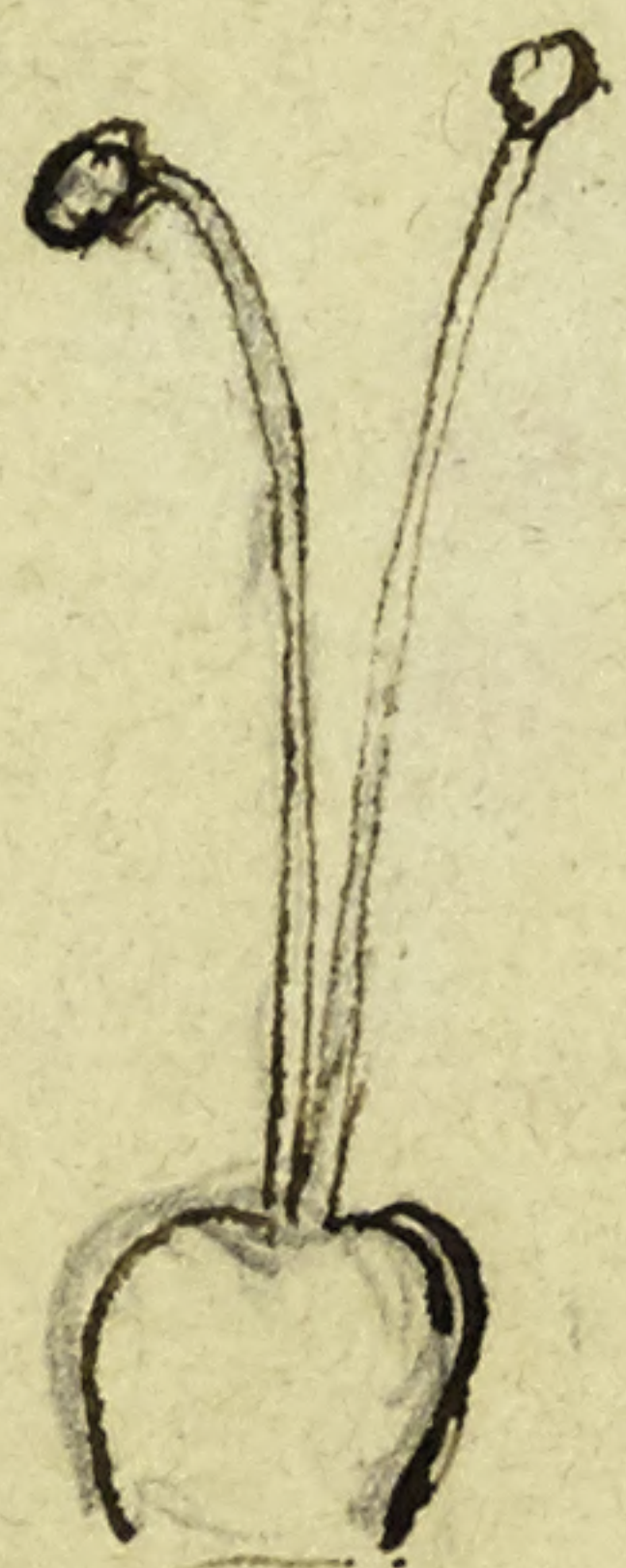




This is not a  
good figure



164



0.5

peritrite! *trichostylis*  
Cuscuta *trichostylis* n. sp.  
var. *firmis* P. Aubry, Gardner

Brazil

Hb. Hooker 47.6.

*Proserpinaca*

caulis capillaris  
caulis laxis; floris ~~spicatis~~  
pedicellis gracilibus; calycis  
lobis acutis, tubo corollae superio-  
re demum uncinato, calycis exsertato,  
laciniis <sup>petalis s. demum reflexis</sup> lanceolatis acutis longioribus  
staminibus brevibus; antheris ovatis  
obtusis filamentis subulatis longioribus  
filamentis brevioribus; corollae  
ovatis tubo multo brevioribus  
ovario depresso, parvis; stylis  
longioribus capillaris exsertatis, demum  
recurvis  
capsula inclusa breviter persistente  
seminibus parvis.

Flowers 1-1 1/4 l. long, styles very long, seeds only 1/2 l. long; crown



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of scales, constituted around and over the capsule, white the  
corolla-tube is wider, somewhat uncolate, and not touching  
the scales!

Allied to *C. desertorum* & *C. imbellata*, on account of  
the <sup>narrow</sup> <sup>spread</sup> lobes, but distinct ~~though~~ by the uncolate tube  
and the long styles.

Same under same name - Hb. Berthol  
pro "Prov. Ceara, Brazil tropic, 1839" in *Portulaca*

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